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1 [Document Formatting Systems: Survey, Concepts, and Issues](#)

Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: [pdf\(5.36 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Pen computing: a technology overview and a vision](#)

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: [pdf\(5.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

3 [Answering English questions by computer: a survey](#)

R. F. Simmons

January 1965 **Communications of the ACM**, Volume 8 Issue 1

Full text available: [pdf\(2.79 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [Translator writing systems](#)

Jerome Feldman, David Gries

February 1968 **Communications of the ACM**, Volume 11 Issue 2

Full text available: [pdf\(4.47 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


A critical review of recent efforts to automate the writing of translators of programming languages is presented. The formal study of syntax and its application to translator writing are discussed in Section II. Various approaches to automating the postsyntactic (semantic) aspects of translator writing are discussed in Section III, and several related topics in Section IV.

Keywords: compiler compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, parser, semantics, syntactic analysis, syntax, syntax-directed, translator, translator writing system

5 Generating text from compressed input: an intelligent interface for people with severe motor impairments

Patrick W. Demasco, Kathleen F. McCoy

May 1992 **Communications of the ACM**, Volume 35 Issue 5

Full text available:  pdf(3.88 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: text processing

6 Computers in the study of learning: namer—A pattern-recognition system for generating sentences about relations between line drawings

M. Kochen, D. L. Londe, R. F. Simmons

August 1965 **Proceedings of the 1965 20th national conference**

Full text available:  pdf(1.01 MB)


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THIS PAPER reports on a series of experimental programs which are used to recognize line drawings and the spatial relationships between them. At the pattern-recognition level the programs learn to associate a name with a generalized bit pattern representing a line drawing. At the relation-learning level, the programs abstract characteristics which relate to such spatial concepts as "above," "left," "thicker than," etc. The names that have been learned in ...

7 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available:  pdf(6.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

8 Open-vocabulary speech indexing for voice and video mail retrieval

M. G. Brown, J. T. Foote, G. J. F. Jones, K. Spärck Jones, S. J. Young

February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Full text available:  pdf(1.82 MB)

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